L1

L5

Arrigoni

(FILE 'HOME' ENTERED AT 16:23:33 ON 28 MAR 2002)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH' ENTERED AT 16:25:37 ON 28 MAR 2002

3595 S (RECEPTOR (5A) ADVANCED (W) GLYCATION (W) ENDPRODUCT) OR RAGE

L2 24 S INHIBITOR (7A) L1

L3 70970 S (TISSUE (5A) GROWTH) OR NEOINTIMAL (3A) FORMATION OR RESTENOSIS

L4 242 S (INHIBIT? OR SUPPRESS? OR DEMINISH OR DIMINISH) (7A) L1

6 S L3 AND L4

L6 3 DUP REM L5 (3 DUPLICATES REMOVED)

=> d au ti so ab 1-3 16

L6 ANSWER 1 OF 3 MEDLINE DUPLICATE 1
AU Degryse B; Bonaldi T; Scaffidi P; Muller S; Resnati M; Sanvito F;

G; Bianchi M E

- TI The high mobility group (HMG) boxes of the nuclear protein HMG1 induce chemotaxis and cytoskeleton reorganization in rat smooth muscle cells.
- SO JOURNAL OF CELL BIOLOGY, (2001 Mar 19) 152 (6) 1197-206. Journal code: HMV; 0375356. ISSN: 0021-9525.
- AB HMG1 (high mobility group 1) is a ubiquitous and abundant chromatin component. However, HMG1 can be secreted by activated macrophages and monocytes, and can act as a mediator of inflammation and endotoxic lethality. Here we document a role of extracellular HMG1 in cell migration. HMG1 (and its individual DNA-binding domains) stimulated migration of rat smooth muscle cells in chemotaxis, chemokinesis, and wound healing assays. HMG1 induced rapid and transient changes of cell shape, and actin cytoskeleton reorganization leading to an elongated polarized morphology typical of motile cells. These effects were inhibited by antibodies directed against the receptor of

advanced glycation endproducts, indicating

that the receptor of advanced glycation endproducts is the receptor mediating the HMG1-dependent migratory responses. Pertussis toxin and the mitogen-activated protein kinase kinase inhibitor PD98059 also blocked HMG1-induced rat smooth muscle cell migration, suggesting that a G(i/o) protein and mitogen-activated protein kinases are required for the HMG1 signaling pathway. We also show that HMG1 can be released by damage or necrosis of a variety of cell types, including endothelial cells. Thus, HMG1 has all the hallmarks of a molecule that can promote atherosclerosis and restenosis after vascular damage.

- L6 ANSWER 2 OF 3 SCISEARCH COPYRIGHT 2002 ISI (R)
- AU Zhou Z M (Reprint); Marso S P; Schmidt A M; Stern D M; Qu W; Forudi F; Wang K; Lincoff A M; Topol E J
- TI Blockade of receptor for advanced glycation end-products (RAGE) suppresses neointimal formation in diabetic rat carotid artery injury model
- SO CIRCULATION, (31 OCT 2000) Vol. 102, No. 18, Supp. [S], pp. 246-246. MA 1202.

Publisher: LIPPINCOTT WILLIAMS & WILKINS, 530 WALNUT ST, PHILADELPHIA, PA 19106-3621 USA.

ISSN: 0009-7322.

- L6 ANSWER 3 OF 3 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
- AU Zhou, Zhong Min (1); Marso, Steven P.; Schmidt, Ann Marie; Stern, David M.; Qu, Wu; Forudi, Farhad; Wang, Kai; Lincoff, A. Michael; Topol, Eric

J.

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Blockade of receptor for advanced glycation end-products (RAGE)
     suppresses neointimal formation in diabetic
     rat carotid artery injury model.
     Circulation, (October 31, 2000) Vol. 102, No. 18 Supplement, pp. II.246.
SO
     print.
     Meeting Info.: Abstracts from Scientific Sessions 2000 New Orleans,
     Louisiana, USA November 12-15, 2000
     ISSN: 0009-7322.
=> s 11 and 13
            14 L1 AND L3
L7
=> dup rem 17
PROCESSING COMPLETED FOR L7
              8 DUP REM L7 (6 DUPLICATES REMOVED)
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     (FILE 'HOME' ENTERED AT 16:23:33 ON 28 MAR 2002)
     FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH' ENTERED AT 16:25:37 ON 28 MAR
     2002
L1
           3595 S (RECEPTOR (5A) ADVANCED (W) GLYCATION (W) ENDPRODUCT) OR RAGE
L2
             24 S INHIBITOR (7A) L1
L3
          70970 S (TISSUE (5A) GROWTH) OR NEOINTIMAL (3A) FORMATION OR RESTENOSIS
            242 S (INHIBIT? OR SUPPRESS? OR DEMINISH OR DIMINISH) (7A) L1
L4
L5
              6 S L3 AND L4
              3 DUP REM L5 (3 DUPLICATES REMOVED)
L6
L7
             14 S L1 AND L3
L8
              8 DUP REM L7 (6 DUPLICATES REMOVED)
=> d au ti so ab 1-8 18
     ANSWER 1 OF 8
1.8
                       MEDLINE
                                                         DUPLICATE 1
AU
     Twigg S M; Chen M M; Joly A H; Chakrapani S D; Tsubaki J; Kim H S; Oh Y;
     Rosenfeld R G
     Advanced glycosylation end products up-regulate connective tissue
ΤI
     growth factor (insulin-like growth factor-binding
     protein-related protein 2) in human fibroblasts: a potential mechanism
for
     expansion of extracellular matrix in diabetes mellitus.
SO
     ENDOCRINOLOGY, (2001 May) 142 (5) 1760-9.
     Journal code: EGZ; 0375040. ISSN: 0013-7227.
     Expansion of extracellular matrix with fibrosis occurs in many tissues as
AB
     part of the end-organ complications in diabetes, and advanced
     glycosylation end products (AGE) are implicated as one causative factor
in
     diabetic tissue fibrosis. Connective tissue
     growth factor (CTGF), also known as insulin-like growth
     factor-binding protein-related protein-2 (IGFBP-rP2), is a potent inducer
     of extracellular matrix synthesis and angiogenesis and is increased in
     tissues from rodent models of diabetes. The aim of this study was to
     determine whether CTGF is up-regulated by AGE in vitro and to explore the
     cellular mechanisms involved. AGE treatment of primary cultures of
     nonfetal human dermal fibroblasts in confluent monolayer increased CTGF
     steady state messenger RNA (mRNA) levels in a time- and dose-dependent
     manner. In contrast, mRNAs for other IGFBP superfamily members, IGFBP-rP1
     (mac 25) and IGFBP-3, were not up-regulated by AGE. The effect of the AGE
     BSA reagent on CTGF mRNA was due to nonenzymatic glycosylation of BSA
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and,

using neutralizing antisera to AGE and to the receptor for AGE, termed RAGE, was seen to be due to late products of nonenzymatic glycosylation and was partly mediated by RAGE. Reactive oxygen species as well as endogenous transforming growth factor-betal could not explain the AGE effect on CTGF mRNA. AGE also increased CTGF protein in the conditioned medium and cell-associated CTGF. Thus, AGE up-regulates the profibrotic and proangiogenic protein CTGF (IGFBP-rP2), a finding

may have significance in the development of diabetic complications.

- L8 ANSWER 2 OF 8 MEDLINE DUPLICATE 2
 AU Degryse B; Bonaldi T; Scaffidi P; Muller S; Resnati M; Sanvito F;
 Arrigoni
 - G; Bianchi M E

that

- TI The high mobility group (HMG) boxes of the nuclear protein HMG1 induce chemotaxis and cytoskeleton reorganization in rat smooth muscle cells.
- SO JOURNAL OF CELL BIOLOGY, (2001 Mar 19) 152 (6) 1197-206. Journal code: HMV; 0375356. ISSN: 0021-9525.
- AB HMG1 (high mobility group 1) is a ubiquitous and abundant chromatin component. However, HMG1 can be secreted by activated macrophages and monocytes, and can act as a mediator of inflammation and endotoxic lethality. Here we document a role of extracellular HMG1 in cell migration. HMG1 (and its individual DNA-binding domains) stimulated migration of rat smooth muscle cells in chemotaxis, chemokinesis, and wound healing assays. HMG1 induced rapid and transient changes of cell shape, and actin cytoskeleton reorganization leading to an elongated polarized morphology typical of motile cells. These effects were inhibited

by antibodies directed against the receptor of advanced glycation endproducts, indicating that the receptor of advanced glycation

endproducts is the receptor mediating the HMG1-dependent migratory
 responses. Pertussis toxin and the mitogen-activated protein kinase
kinase

inhibitor PD98059 also blocked HMG1-induced rat smooth muscle cell migration, suggesting that a G(i/o) protein and mitogen-activated protein kinases are required for the HMG1 signaling pathway. We also show that HMG1 can be released by damage or necrosis of a variety of cell types, including endothelial cells. Thus, HMG1 has all the hallmarks of a molecule that can promote atherosclerosis and ${\bf restenosis}$ after vascular damage.

- L8 ANSWER 3 OF 8 SCISEARCH COPYRIGHT 2002 ISI (R)
- AU Fehrenbach H (Reprint); Weiskirchen R; Kasper M; Gressner A M
- TI Up-regulated expression of the receptor for advanced glycation end products in cultured rat hepatic stellate cells during transdifferentiation to myofibroblasts
- SO HEPATOLOGY, (NOV 2001) Vol. 34, No. 5, pp. 943-952.
 Publisher: W B SAUNDERS CO, INDEPENDENCE SQUARE WEST CURTIS CENTER, STE 300, PHILADELPHIA, PA 19106-3399 USA.
 ISSN: 0270-9139.
- AB Receptor for advanced glycation end products (RAGE) is a member of the immunoglobulin superfamily of cell-surface molecules. Blockade of RAGE has been reported to considerably improve liver function and accelerate regeneration after hepatectomy. The aim of this study was to investigate the cell type-specific expression of RAGE, and to examine whether transdifferentiation of hepatic stellate cells (HSC) into myofibroblasts (MFB) is associated with changes in RAGE expression. Northern blot analysis revealed that RAGE mRNA was exclusively expressed by HSC isolated from rat liver, while no transcripts

were seen in hepatocytes, Kupffer cells, or sinusoidal endothelial cells. Expression of RAGE mRNA was up-regulated during transdifferentiation of HSC into MFB. Concomitantly, expression of RAGE protein was increased as confirmed by Western blotting and immunohistochemistry. As assessed by radioactive labeling, transforming growth factor beta (1) (TGF-beta (1)) induced a time-dependent 2- to 15-fold increase in the de novo synthesis of RAGE protein, which was completely abolished using PD098059, a specific inhibitor of the mitogen-activated protein kinase (MAPK) kinase. As shown by double-immunofluorescence staining, RAGE colocalized with a-smooth muscle actin, and immunoelectron microscopy demonstrated the

most

prominent labeling for RAGE at filopodial membranes of MFB. In conclusion, this study demonstrates that expression of RAGE is restricted to rat HSC, and that expression is up-regulated during activation of HSC and transition to MFB. The preferential immunogold labeling of RAGE to focal membrane areas of filopodia of MFB is suggestive of a role of RAGE in the spreading and migration of activated HSC/MFB, major players in liver fibrogenesis.

- L8 ANSWER 4 OF 8 SCISEARCH COPYRIGHT 2002 ISI (R)
- AU Sakaguchi T (Reprint); Sousa M; Yan S D; Yan S F; Duda S; Arnold B; Nawroth P P; Schmidt A M; Stern D M; Naka Y
- TI Restenosis: Central role of RAGE-dependent neointimal expansion
- SO CIRCULATION, (23 OCT 2001) Vol. 104, No. 17, Supp. [S], pp. 522-523. MA 2471.

 Publisher: LIPPINCOTT WILLIAMS & WILKINS, 530 WALNUT ST, PHILADELPHIA, PA

19106-3621 USA.

ISSN: 0009-7322.

- L8 ANSWER 5 OF 8 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
- AU Kornberg, Abraham (1); Buchs, Andreas; Zahavi, Miriam; Rapoport, Micha
- TI Increased tissue factor in monocytes form patients with diabetes mellitus.
- SO Blood, (November 16, 2001) Vol. 98, No. 11 Part 2, pp. 28b. http://www.bloodjournal.org/. print.
 - Meeting Info.: 43rd Annual Meeting of the American Society of Hematology, Part 2 Orlando, Florida, USA December 07-11, 2001 ISSN: 0006-4971.
- AB Vascular complications such as arteriosclerosis develop frequently in patients with diabetes mellitus (DM). Advanced glycosylation end products (AGEs) play an important role in the development of the complications. The

lesions contain in addition to lipids also fibrin, thrombin and platelets,

indicating that the coagulation system is activated. The lesions contain also monocytes-macrophages that accumulate at an early stage of atheroma formation and fibroblasts and connective-tissue. Monocytes possess specific receptors for AGEs (RAGE). Cell-bound tissue factor (TF) is the main initiator of blood coagulation. TF also induce the expression of connective tissue and fibroblast growth factors. Monocytes, but not lymphocytes, can generate a potent TF upon stimulation with various substances. Monocyte TF is increased in diseases with high incidence of thrombosis. Based on this data the goal of the study was to investigate the capacity of monocytes from patients with DM with vascular complications (angina pectoris, myocardial infarction, stroke, peripheral vascular disease) and without to generate TF. Mononuclear cells (MNC) were isolated on Ficoll-hypaque gradient centrifugation and incubated with and without AGE-albumin for 18 hours.

Monocyte TF activity was assayed by a modified PT and TF antigen by American Diagnostica ELISA. For TF mRNA and RAGE mRNA determination, RNA was extracted, reversed transcribed into DNA and the genes were amplified and compared to the housekeeping gene GAPDH. The results show that TF and RAGE are increased significantly in cells from patients with DM and vascular complications. After stimulation with AGE-albumin TF increased significantly in MNC from patients without vascular complications and even more in patients with complications (2.1-3.2 fold; p<0.07). The results of the study suggest that monocyte TF play an important role in the pathogenesis of vascular complication in patients with DM and that AGEs may exert their effect via the induction

of

monocyte TF.

- L8 ANSWER 6 OF 8 SCISEARCH COPYRIGHT 2002 ISI (R)
- AU Zhou Z M (Reprint); Marso S P; Schmidt A M; Stern D M; Qu W; Forudi F; Wang K; Lincoff A M; Topol E J
- TI Blockade of receptor for advanced glycation end-products (RAGE) suppresses neointimal formation in diabetic rat carotid artery injury model
- SO CIRCULATION, (31 OCT 2000) Vol. 102, No. 18, Supp. [S], pp. 246-246. MA 1202.

Publisher: LIPPINCOTT WILLIAMS & WILKINS, 530 WALNUT ST, PHILADELPHIA, PA 19106-3621 USA.
ISSN: 0009-7322.

- L8 ANSWER 7 OF 8 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
- AU Zhou, Zhong Min (1); Marso, Steven P.; Schmidt, Ann Marie; Stern, David M.; Qu, Wu; Forudi, Farhad; Wang, Kai; Lincoff, A. Michael; Topol, Eric J.
- TI Blockade of receptor for advanced glycation end-products (RAGE) suppresses neointimal formation in diabetic rat carotid artery injury model.
- SO Circulation, (October 31, 2000) Vol. 102, No. 18 Supplement, pp. II.246. print.

Meeting Info.: Abstracts from Scientific Sessions 2000 New Orleans, Louisiana, USA November 12-15, 2000 ISSN: 0009-7322.

- L8 ANSWER 8 OF 8 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
- AU Vojacek, Jan (1); Simek, Stanislav; Aschermann, Michael; Krupicka, Petr
- TI Restenosis after coronary angioplasty.
- SO Cor et Vasa, (1995) Vol. 37, No. 6, pp. 342-347. ISSN: 0010-8650.
- AB The aim of the study was to analyze the causes of **restenosis** following coronary angioplasty in a group of patients hospitalized at the Department of Medicine II of the Prague-based Charles University School

Medicine 1, and to evaluate the outcome in patients undergoing repeat coronary arteriography for suspicion of coronary restenosis. In the period between 16 March 1989 and 17 November 1994, a total of 601 percutaneous transluminar coronary angioplasty procedures were performed in 489 patients (369 men, 120 women, age rage 31-85 years, mean age 54.0 +- 9.6 years). Over the same period of time. 116 follow-up coronary arteriography procedures were carried out in patients who had

had

of

a successful coronary angioplasty. While no **restenosis** was found in 50 cases, a **restenosis** was present in 66 cases. Of this number, repeat coronary angioplasty was performed in 55 patients, surgical

myocardial revascularization was attempted in seven, and four patients continued to receive conservative therapy. The success rate of coronary angioplasty in patients developing restenosis was 94.5% which is not only higher than in the basic group (with the overall success rate being 84.1% over the same follow-up period, regardless of the type of coronary stenosis) but, also, higher than in the basic group of patients with Type A coronary stenosis. Six patients had a third coronary angioplasty procedure in the same localization with success in four; a fourth angioplasty was successful in yet another patient. Restenosis was more frequent in stenoses with a suboptimal outcome immediately after angioplasty than in those achieving optimal dilatation (57.7% vs 47.4% of patients with follow-up coronary arteriography); the difference, however, was not statistically significant. Although experimental results may seem to suggest a number of promising procedures are currently available, repeat coronary angioplasty remains to be the most reliable method for treating restenoses in clinical practice. Coronary stent implantation reduces the risk of restenosis in some patients.

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=> s l1 and (diabetes or diabetic)
           492 L1 AND (DIABETES OR DIABETIC)
=> s 14 and (diabetes or diabetic)
            91 L4 AND (DIABETES OR DIABETIC)
=> dup rem 110
PROCESSING COMPLETED FOR L10
L11
             40 DUP REM L10 (51 DUPLICATES REMOVED)
=> d his
     (FILE 'HOME' ENTERED AT 16:23:33 ON 28 MAR 2002)
     FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH' ENTERED AT 16:25:37 ON 28 MAR
     2002
1.1
           3595 S (RECEPTOR (5A) ADVANCED (W) GLYCATION (W) ENDPRODUCT) OR RAGE
L2
             24 S INHIBITOR (7A) L1
L3
          70970 S (TISSUE (5A) GROWTH) OR NEOINTIMAL (3A) FORMATION OR RESTENOSIS
T.4
            242 S (INHIBIT? OR SUPPRESS? OR DEMINISH OR DIMINISH) (7A)L1
L_5
              6 S L3 AND L4
              3 DUP REM L5 (3 DUPLICATES REMOVED)
L6
L7
             14 S L1 AND L3
              8 DUP REM L7 (6 DUPLICATES REMOVED)
L8
L9
            492 S L1 AND (DIABETES OR DIABETIC)
T<sub>1</sub>1.0
             91 S L4 AND (DIABETES OR DIABETIC)
L11
             40 DUP REM L10 (51 DUPLICATES REMOVED)
=> d au ti so 1-40 ll1
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- L11 ANSWER 1 OF 40 MEDLINE
- AU Collison Kate S; Parhar Ranjit S; Saleh Soad S; Meyer Brian F; Kwaasi Aaron A; Hammami Muhammad M; Schmidt Ann Marie; Stern David M; Al-Mohanna Futwan A
- TI RAGE-mediated neutrophil dysfunction is evoked by advanced glycation end products (AGEs).
- SO JOURNAL OF LEUKOCYTE BIOLOGY, (2002 Mar) 71 (3) 433-44. Journal code: 8405628. ISSN: 0741-5400.
- L11 ANSWER 2 OF 40 SCISEARCH COPYRIGHT 2002 ISI (R)

- AU Boulanger E; Wautier M P (Reprint); Wautier J L; Boval B; Panis Y; Wernert
 - N; Danze P M; Dequiedt P
- TI AGEs bind to mesothelial cells via RAGE and stimulate VCAM-1 expression
- SO KIDNEY INTERNATIONAL, (JAN 2002) Vol. 61, No. 1, pp. 148-156.
 Publisher: BLACKWELL SCIENCE INC, 350 MAIN ST, MALDEN, MA 02148 USA.
 ISSN: 0085-2538.
- L11 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2002 ACS
- AU Lim, Hyun Jin; Song, Jaesook; Ha, Hunjoo; Lee, Hi Bahl
- TI N.epsilon.-(carboxymethy)lysine-induced mesangial cell activation
- SO Taehan Sinjang Hakhoechi (2002), 21(1), 20-28 CODEN: TSHACY; ISSN: 1225-0015
- L11 ANSWER 4 OF 40 CAPLUS COPYRIGHT 2002 ACS
- IN Shahbaz, Manouchehr
- TI Methods to identify compounds that modulate RAGE
- SO PCT Int. Appl., 49 pp. CODEN: PIXXD2
- L11 ANSWER 5 OF 40 MEDLINE DUPLICATE 1
- AU Yeh C H; Sturgis L; Haidacher J; Zhang X N; Sherwood S J; Bjercke R J; Juhasz O; Crow M T; Tilton R G; Denner L
- TI Requirement for p38 and p44/p42 mitogen-activated protein kinases in RAGE-mediated nuclear factor-kappaB transcriptional activation and cytokine secretion.
- SO DIABETES, (2001 Jun) 50 (6) 1495-504. Journal code: E8X; 0372763. ISSN: 0012-1797.
- L11 ANSWER 6 OF 40 MEDLINE

DUPLICATE 2

- AU Schmidt A M; Stern D M
- TI Receptor for age (RAGE) is a gene within the major histocompatibility class III region: implications for host response mechanisms in homeostasis
 - and chronic disease.
- SO FRONTIERS IN BIOSCIENCE, (2001 Oct 1) 6 D1151-60. Ref: 48 Journal code: 9702166. ISSN: 1093-4715.
- L11 ANSWER 7 OF 40 MEDLINE DUPLICATE 3
- AU Goova M T; Li J; Kislinger T; Qu W; Lu Y; Bucciarelli L G; Nowygrod S; Wolf B M; Caliste X; Yan S F; Stern D M; Schmidt A M
- TI Blockade of receptor for advanced glycation end-products restores effective wound healing in **diabetic** mice.
- SO AMERICAN JOURNAL OF PATHOLOGY, (2001 Aug) 159 (2) 513-25. Journal code: 3RS; 0370502. ISSN: 0002-9440.
- L11 ANSWER 8 OF 40 MEDLINE

DUPLICATE 4

- AU Wang R; Kudo M; Yokoyama M; Asano G
- TI Roles of advanced glycation endproducts (AGE) and receptor for AGE on vascular smooth muscle cell growth.
- SO JOURNAL OF NIPPON MEDICAL SCHOOL, (2001 Dec) 68 (6) 472-81. Journal code: 100935589. ISSN: 1345-4676.
- L11 ANSWER 9 OF 40 SCISEARCH COPYRIGHT 2002 ISI (R)
- AU Wendt T M (Reprint); Tanji N; Kislinger T; Bucciarelli L G; Qu W; Lu Y; Lalla E; Moser B; Markowitz G; D'Agati V; Stern D M; Schmidt A M
- TI Blockade of receptor for age (RAGE) suppresses albuminuria and glomerulosclerosis in murine diabetic kidney: Implications for podocyte activation in the pathogenesis of diabetic nephropathy

CIRCULATION, (23 OCT 2001) Vol. 104, No. 17, Supp. [S], pp. 237-237. MA SO 1142. Publisher: LIPPINCOTT WILLIAMS & WILKINS, 530 WALNUT ST, PHILADELPHIA, PA

19106-3621 USA. ISSN: 0009-7322.

L11 ANSWER 10 OF 40 MEDLINE **DUPLICATE 5**

Huang J S; Guh J Y; Chen H C; Hung W C; Lai Y H; Chuang L Y ΑU

- Role of receptor for advanced glycation end-product (RAGE) and the ΤI JAK/STAT-signaling pathway in AGE-induced collagen production in NRK-49F cells.
- SO JOURNAL OF CELLULAR BIOCHEMISTRY, (2001) 81 (1) 102-13. Journal code: HNF; 8205768. ISSN: 0730-2312.
- L11 ANSWER 11 OF 40 CAPLUS COPYRIGHT 2002 ACS
- IN Schmidt, Ann Marie; Stern, David
- Methods for determining whether a compound is capable of ΤI inhibiting the interaction of a peptide with RAGE
- so PCT Int. Appl., 66 pp. CODEN: PIXXD2
- L11 ANSWER 12 OF 40 MEDLINE DUPLICATE 6
- Lalla E; Lamster I B; Feit M; Huang L; Spessot A; Qu W; Kislinger T; Lu ΑU Υ;

Stern D M; Schmidt A M

- TI Blockade of RAGE suppresses periodontitis-associated bone loss in diabetic mice.
- SO JOURNAL OF CLINICAL INVESTIGATION, (2000 Apr) 105 (8) 1117-24. Journal code: HS7; 7802877. ISSN: 0021-9738.
- L11 ANSWER 13 OF 40 SCISEARCH COPYRIGHT 2002 ISI (R)
- ΑU Yan S D; Zhu H J; Zhu A P; Golabek A; Du H; Roher A; Yu J; Soto C; Schmidt

A M; Stern D; Kindy M (Reprint)

- ΤI Receptor-dependent cell stress and amyloid accumulation in systemic amyloidosis
- SO NATURE MEDICINE, (JUN 2000) Vol. 6, No. 6, pp. 643-651. Publisher: NATURE AMERICA INC, 345 PARK AVE SOUTH, NEW YORK, NY 10010-1707. ISSN: 1078-8956.
- L11ANSWER 14 OF 40 MEDLINE DUPLICATE 7
- Taguchi A; Blood D C; del Toro G; Canet A; Lee D C; Qu W; Tanji N; Lu Y; UΑ Lalla E; Fu C; Hofmann M A; Kislinger T; Ingram M; Lu A; Tanaka H; Hori 0;

Ogawa S; Stern D M; Schmidt A M

- TI Blockade of RAGE-amphoterin signalling suppresses tumour growth and metastases.
- SO NATURE, (2000 May 18) 405 (6784) 354-60. Journal code: NSC; 0410462. ISSN: 0028-0836.
- ANSWER 15 OF 40 SCISEARCH COPYRIGHT 2002 ISI (R) L11
- ΑU Zhou Z M (Reprint); Marso S P; Schmidt A M; Stern D M; Qu W; Forudi F; Wang K; Lincoff A M; Topol E J
- TIBlockade of receptor for advanced glycation end-products (RAGE) suppresses neointimal formation in diabetic rat carotid artery injury model
- SO CIRCULATION, (31 OCT 2000) Vol. 102, No. 18, Supp. [S], pp. 246-246. MA 1202.

Publisher: LIPPINCOTT WILLIAMS & WILKINS, 530 WALNUT ST, PHILADELPHIA, PA

19106-3621 USA. ISSN: 0009-7322.

- L11 ANSWER 16 OF 40 SCISEARCH COPYRIGHT 2002 ISI (R)
- AU Bucciarelli L G (Reprint); Qu W; Lu Y; Wendt T M; Kislinger T R; Goova M T; Ferran L A; Stern D M; Schmidt A M
- TI Blockade of receptor for AGE (RAGE) suppresses progression of established atherosclerotic lesions in APO E null mice with

type 1 diabetes.

SO CIRCULATION, (31 OCT 2000) Vol. 102, No. 18, Supp. [S], pp. 232-232. MA

Publisher: LIPPINCOTT WILLIAMS & WILKINS, 530 WALNUT ST, PHILADELPHIA, PA 19106-3621 USA.

ISSN: 0009-7322.

L11 ANSWER 17 OF 40 MEDLINE

DUPLICATE 8

- AU Bonnardel-Phu E; Wautier J L; Vicaut E
- TI [Advanced glycation end products are involved in microvascular permeability changes observed in microcirculation of diabetic rats in vivo].

 Les produits avances de la glycation sont impliques dans les changements de la permeabilite microvasculaire observes chez le rat diabetique in
- SO JOURNAL DES MALADIES VASCULAIRES, (2000 Apr) 25 (2) 122-7. Journal code: IYN; 7707965. ISSN: 0398-0499.
- L11 ANSWER 18 OF 40 SCISEARCH COPYRIGHT 2002 ISI (R)
- AU Bucciarelli L G (Reprint); Qu W; Wendt T M; Goova M T; Bakr S; Hwang Y Y C; Stern D M; Schmidt A M; Ramasamy R
- TI Blockade of receptor for AGE (RAGE) suppresses levels of cardiac endothelial- and inducible nitric oxide synthase in diabetic mice
- SO CIRCULATION, (31 OCT 2000) Vol. 102, No. 18, Supp. [S], pp. 117-118. MA 563.

 Publisher: LIPPINCOTT WILLIAMS & WILKINS, 530 WALNUT ST, PHILADELPHIA, PA 19106-3621 USA.

 ISSN: 0009-7322.
- L11 ANSWER 19 OF 40 MEDLINE DUPLICATE 9
- AU Schmidt A M; Yan S D; Yan S F; Stern D M
- TI The biology of the receptor for advanced glycation end products and its ligands.
- SO BIOCHIMICA ET BIOPHYSICA ACTA, (2000 Dec 20) 1498 (2-3) 99-111. Ref: 42 Journal code: AOW. ISSN: 0006-3002.
- L11 ANSWER 20 OF 40 SCISEARCH COPYRIGHT 2002 ISI (R)
- AU Kislinger T R (Reprint); Tanji N; Qu W; Goova M T; Wendt T M; Lu Y; Bucciarelli L G; Hofmann M A; Ferran L A; Pischetsrieder M; Stern D M; Schmidt A M
- TI Blockade of receptor for AGE (RAGE) suppresses vascular inflammation and hypercoagulability in apo E null mice with type 1 diabetes.
- SO CIRCULATION, (31 OCT 2000) Vol. 102, No. 18, Supp. [S], pp. 41-41. MA 187.
 - Publisher: LIPPINCOTT WILLIAMS & WILKINS, 530 WALNUT ST, PHILADELPHIA, PA 19106-3621 USA.
 ISSN: 0009-7322.
- L11 ANSWER 21 OF 40 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

- Zhou, Zhong Min (1); Marso, Steven P.; Schmidt, Ann Marie; Stern, David AU M.; Qu, Wu; Forudi, Farhad; Wang, Kai; Lincoff, A. Michael; Topol, Eric
- Blockade of receptor for advanced glycation end-products (RAGE) ΤI suppresses neointimal formation in diabetic rat carotid artery injury model.
- Circulation, (October 31, 2000) Vol. 102, No. 18 Supplement, pp. II.246. so print. Meeting Info.: Abstracts from Scientific Sessions 2000 New Orleans,

Louisiana, USA November 12-15, 2000 ISSN: 0009-7322.

J.

- L11 ANSWER 22 OF 40 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
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IN Stern, David M.; Schmidt, Ann Marie; Yan, Shi Du; Zlokovic, Berislav
TI A method to increase cerebral blood flow in cerebral amyloid angiopath

TI A method to increase cerebral blood flow in cerebral amyloid angiopathy by

administering to the subject an inhibitor of receptor for advanced glycosylation end product

SO PCT Int. Appl., 68 pp. CODEN: PIXXD2

AB The present invention provides a method for decreasing cerebral vasoconstriction in a subject suffering from chronic or acute cerebral amyloid angiopathy which comprises administering to the subject an inhibitor of receptor for advanced glycation end product (RAGE) in an effective amt. to inhibit transcytosis of amyloid .beta. peptides across the blood-brain barrier in the subject, thereby decreasing cerebral vasoconstriction in the subject. The invention further provides for a method for ameliorating neurovascular stress in a subject which comprises administering to the subject an effective amt. of an inhibitor of receptor for advanced glycation end product (RAGE), so as to increase cerebral blood flow in the subject, thereby ameliorating neurovascular stress in the subject. The invention demonstrates that RAGE has import role in A.beta.-mediated uptake at blood-brain barrier (BBB) and its transport into the central nervous system, as well as a.beta.-mediated cellular perturbation. A method for blockading RAGE, with either sol. RAGE or anti-RAGE IgG which, thereby suppresses binding to and uptake of a.beta. in relation to the vessel wall and inhibits a.beta.-induced cell stress in the vasculature and in neurons, consequent to systemic infusion of a.beta..

L13 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

IN Stern, David M.; Schmidt, Ann Marie

TI Method for treating symptoms of diabetes with agents preventing binding of

advanced glycation endproducts to receptors

SO PCT Int. Appl., 33 pp. CODEN: PIXXD2

AB A method is provided for treating symptoms of diabetes in a diabetic subject, e.g. abnormal wound healing, which comprises administering to the

subject a therapeutically effective amt. of an agent which inhibits binding of advanced glycation endproducts to any receptor for advanced glycation

endproducts so as to treat chronic symptoms of diabetes in the subject. Improved wound healing in diabetic mice by treatment with the sol. receptor for advanced glycation endproducts is described.

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L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS

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by
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      glycosylation end product
      Stern, David M.; Schmidt, Ann Marie; Yan, Shi Du; Zlokovic, Berislav
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      The Trustees of Columbia University in the City of New York, USA
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      Stern, David M.; Schmidt, Ann Marie
IN
      Trustees of Columbia University in the City of New York, USA
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